APPENDIX A

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

TABLE OF CONTENTS

<u>SE</u>	<u>CTION</u>	<u>PAGE</u>
I	PURPOSE	A-3
II	SCOPE	A-3
Ш	ACTIONS	A-3
IV	RESPONSIBILITIES	
	SELF-CERTIFICATION PROCESS	A-4
	SITE CERTIFICATION PROCESS	A-5
V	CERTIFICATION PROCESS (OUTLINE)	A-6
VI	SITE INSPECTION CHECKLIST	A-10
A	ADDENDUM A, WEAPONS PECULIAR OR LOCALLY MANUFACTURED HANDLING EQUIPMENT LOAD TEST REQUIREMENTS	A-20
В	ADDENDUM B, PERSONNEL QUALIFICATIONS	A-21

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION I - PURPOSE

To establish a Department of Navy (DON) standard program for the certification of facilities ashore or afloat to perform periodic weight testing of portable ordnance handling equipment (OHE), as identified in NAVSEA OP 2173 and in accordance with the requirements of NAVSEA SG420-AP-MMA-010 and NAVAIR 17-1-127, and to maintain a comprehensive data base of certified facilities and their capabilities.

SECTION II - SCOPE

This certification program is applicable to all facilities that perform periodic weight testing of DON portable OHE identified in NAVSEA OP 2173.

SECTION III - ACTIONS

- A. Navy Type Commanders (TYCOMs), COMNAVAIRRESFOR, COMMARSYSCOM, CNET, NAVSEA and NAVAIR, as appropriate, shall:
- a. Ensure that their activities have their OHE weight tested at certified facilities using testing arrangements and test fixtures that comply with current DON policy. DON units that are tenants at non-DON activities shall develop an Inter-Service Support Agreement (ISSA) to ensure that the OHE is tested in accordance with NAVSEA SG420-AP-MMA-010 or NAVAIR 17-1-127.
 - b. Ensure that these facilities have:
 - (1) been self-certified through this program,
 - (2) been certified by the Naval Packaging, Handling, Storage and Transportation (PHST) Center, Naval Surface Warfare Center Indian Head Division (NAVSURFWARCEN), Detachment Earle (Code 71), or
 - (3) ceased performing weight testing.
 - c. Endorse all self-certification or site certification processes.
 - d. Forward the names, addresses, points of contact and the facility capabilities to the Naval PHST Center, NAVSURFWARCEN Det Earle, (Code 71), Colts Neck, NJ 07722-5023.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION III - ACTIONS (continued)

- B. Activities seeking certification of their weight testing facility:
 - a. Review the scope and objectives for the weight test certification process.
- b. Determine OHE candidates for testing. (Emphasis on most common items tested at site).
- c. Identify limitations (e.g., NAVSEA OHE not compatible with test stand nor NAVAIR OHE with test tower, limited test fixtures).

NOTE: At this point, a determination can be made by the testing activity as to whether or not they meet the requirements of this certification program.

d. Forward request for self-certification or site certification to TYCOM.

SECTION IV - RESPONSIBILITIES

A. SELF-CERTIFICATION PROCESS:

The responsible party for all authorized actions used throughout this certification program is the Commanding Officer-In-Charge (CO/OIC). The CO/OIC may delegate authority to the lowest level of competence commensurate with the subordinate's assigned responsibilities and capabilities in accordance with OPNAVINST 3120.32 (series). For the self-certification process, the CO/OIC delegated authority may sign the inspector's signature on the site inspection checklist, however, the CO/OIC shall have the ultimate responsibility of authorizing the actual self-certification process and shall forward approval letter to the Naval PHST Center.

- (1) Activities performing self-certification shall:
- a. Ensure test personnel are properly trained and knowledgeable with local instruction, test manuals, etc., which govern testing of OHE.
- b. Conduct actual inspection (review publications, drawings, test fixtures, personnel qualifications, etc., and witness actual weight testing procedures) in accordance with the enclosed Site Inspection Checklist.
- c. Maintain certifications for personnel and equipment, once site approval is accomplished.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION IV - RESPONSIBILITIES (continued)

- d. Forward certification letter, along with the completed Site Inspection Checklist, to Naval PHST Center with a copy to appropriate TYCOMs.
- e. Forward any changes in test facility capabilities to Naval PHST Center and appropriate TYCOMs at least annually.

(2) Naval PHST Center shall:

- a. Update, maintain and distribute to ALCON, annually a listing of all certified weight testing facilities and their testing capabilities.
- b. Provide continued technical support and ensure that certified testing activities are on applicable technical documentation distribution lists.

B. SITE CERTIFICATION PROCESS:

- (1) Activities requesting site certification shall:
- a. Ensure test personnel are properly trained and knowledgeable with local instructions, test manuals, etc., which govern testing of OHE.
- b. Contact the Naval PHST Center, DSN 449-2843, Commercial (732) 866-2843 for cost estimate and scheduling.
- c. Provide funding to Naval PHST Center for site certification, via NAVCOMP Form 2275.
- d. Maintain certifications for personnel and equipment, once site approval is accomplished.
 - (2) Naval PHST Center (performing site certification) shall:
 - a. Provide cost estimate and schedule for facilities requesting site certification.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION IV - RESPONSIBILITIES (continued)

- b. Provide technical documentation requirements.
- c. Conduct actual inspection (review publications, drawings, test fixtures, personnel qualifications, etc. and witness actual weight testing procedures).
 - d. Brief applicable personnel to discuss results of findings.
- e. Forward certification letter, along with Site Inspection Checklist, to testing activity with a copy to appropriate TYCOMs.
- f. Update, maintain and distribute to ALCON, via message semi-annually, a listing of all certified weight testing facilities and their testing capabilities (by weapon systems).
- g. Provide continued technical support and ensure that certified testing activities are on applicable technical documentation distribution lists.

SECTION V - CERTIFICATION PROCESS (OUTLINE)

- 1. Facility Conditions/Operations
 - a. Test Mode (Tower, Test Stand, Crane with Dynamometer, etc.)
 - b. Work Area (adequate space, safety protection equipment, machine guards, etc.)

2. Record Keeping

- a. Review test log book (Ensure that the following information is recorded for all OHE: test date, serial number, NSN, nomenclature, test load and operator's name).
- 3. Technical Documentation
 - a. Weight Test Manuals (NAVSEA SG420-AP-MMA-010/NAVAIR 17-1-127)
 - b. Drawings (test fixture drawings provided to each site for NAVSEA OHE).

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION V - CERTIFICATION PROCESS (OUTLINE) (continued)

- c. OHE Maintenance Index Pages (MIPs) including associated Maintenance Requirement Cards (MRCs).
- d. Special Documents [e.g., local written operating procedures, personnel qualifications and training plans; non-destructive testing (NDT) procedures, etc.]
- 4. Test Fixtures
 - a. Properly identified, controlled and available.
 - b. Recommended/alternate test fixtures; source document for alternates.
- 5. Site Test Demonstrations (select 6 different multi-purpose OHE plus additional tests required for weapons peculiar and locally manufactured OHE, if applicable).
 - a. Review visual inspection and testing procedures.
 - b. Review test arrangements (including fixture installation).
 - c. Conduct complete inspection and testing cycle for OHE candidates.
 - d. Validate actual tests.
- 6. OHE Markings
 - a. Test tag.
 - (1) Information (test facility, test expiration date, SWL)
 - (2) Marking methods (stenciling, etching, engraving, etc.)
 - b. Identification Tags (as applicable)
 - (1) Information (nomenclature, part number, SWL)
 - (2) Marking Methods (stenciling, etching, engraving, etc.)
 - c. Standardization record format.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION V - CERTIFICATION PROCESS (OUTLINE) (continued)

d. Local control/serial numbers/codes (as required).

7. QA Check Point

- a. Adequate environmental controls.
- b. Personnel and personal protection during inspections and testing.
- c. Designated storage/stowage areas.
- d. Nonconformance/unserviceable equipment, identification, segregation and storage/stowage controls.
 - e. Maintain inventory control of equipment pending test and tests completed.
- 8. Inspection Results (PHST Center Site Certification only)
 - a. Brief with the testing department personnel.
 - b. Brief with CO/OIC, as required.

9. Report Results

- a. For self-certification: testing activity completes Site Inspection Checklist with inspector's recommendations and signature.
- b. For site certification: Naval PHST Center completes Site Inspection Checklist with inspector's recommendations and signature.

10. Formal Certification Letter

- a. For self certification, the testing activity's CO/OIC forwards official certification letter, with completed Site Inspection Checklist, to Naval PHST Center with a copy to appropriate TYCOMs.
- b. The Naval PHST Center, as directed by NAVORDCEN, initiates and forwards official certification letter, with completed Site Inspection Checklist, to test activity with a copy to appropriate TYCOMs.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION V - CERTIFICATION PROCESS (OUTLINE) (continued)

11. Certified Facilities

a. The Naval PHST Center initiates, maintains and distributes annually, a listing of current certified test facilities and their testing capabilities.

12. Revocation and Reinstatement

Certification shall be indefinite unless revoked by the CO/OIC. Revocation shall remain in effect until the testing facility has successfully completed this certification program.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION VI - SITE INSPECTION CHECKLIST

(For Self-Certification or PHST Center Site Certification)

Name of A	Activity:			
Address:				
Date:	Ashore Af (UIC)	float (Ship F	Iull No.)	-
1. SAFE	ΓΥ REVIEW:			
Reference	es: NAVSEA OP 4 - Ammunition Afloat NAVSEA OP 5 - Ammunition And Explosives A For Handling, Storing, Production Shipping NAVSEA SG420-AP-MMA-010 - Periodic Testion Ordnance Handling NAVAIR 17-1-127 - Periodic Proofload Testing of Equipment NAVSEA OP 2173 - Approved Handling Equipment ANSI Z358.1 - Emergency Eyewash And Shower	ion, Renova ng Arranger ndling Equip Of Weapons nent For We	ion And nents Forment Support	
a.	Are signs properly posted to identify hazard areas (e.g., eye, noise, foot, etc.)?	Yes	No	N/A
b.	Is the area free from hazardous materials not require for the testing/inspection process?	ed		
c.	Is the work area of an adequate size to safely perform the testing/inspection process?	m 		
d.	Are eye wash/showers provided for personnel worki with hazardous materials?	ing ——		
	(1) Are eye wash/showers properly identified by sig	gns?		

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

(2) Are they easily accessible and not blocked by equipment or debris?	Yes	No	N/A
(3) Are eye wash/showers maintained per ANSI Z358.1?			
(4) Is a log maintained?			
e. Is a hazardous material list kept for chemicals?			
f. Are material safety data sheets (MSDS) available to personnel?			
g. Is ventilation adequate for the types of chemicals used?			
h. Are warning signs/flashing lights or other systems used to secure areas during testing?			
i. Are machine guards, protective shields or safety booths provided?			
j. Are they properly installed and functioning?			
k. Is there an effective Energy Control (electrical circuit/machine lock out) tag out procedure for servicing equipment?			
1. Is there a fire extinguisher(s) in the work area?			
(1) Is the fire extinguisher(s) readily available, properly inspected and maintained?			
(2) Is the fire extinguisher(s) easily located visually or identified by signs?			
m. Is there a phone in the area with emergency numbers readily available? Note: A hand held two-way radio is acceptable.			

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

	Yes	No	N/A
n. Is there a first aid kit available or medical facility/ service in the vicinity?			
 o. Is personal protective equipment (PPE) available and worn by the operators? i.e., Gloves Hard Hats (non-metallic), as applicable Safety Shoes Hearing protection, as required Safety glasses/face shield Respirators, as required 			
2. WEIGHT TEST APPARATUS:			
a. Test Apparatus: Serial Number Tower Crane Portable unit Overhead hoist Vertical Horizontal Forklift Other	-		
 (1) Max. Capacity (2) Certification Date (3) Dynamometers/Scales/Indicators (Quantity) Calibration date of each unit, 		,	
b. Test Apparatus: Serial Number Tower Crane Portable unit Overhead hoist Vertical Horizontal Forklift Other	_		
 (1) Max. Capacity (2) Certification Date (3) Dynamometers/Scales/Indicators (Quantity) Calibration date of each unit, 		,	

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

c. Test Apparatus: Serial Number			
Tower Crane Portable unit			
Overhead hoist Vertical Horizontal			
Forklift Other			
(1) Max. Capacity			
(2) Certification Date			
(3) Dynamometers/Scales/Indicators (Quantity)			
Calibration date of each unit,,		,	
3. PERSONNEL QUALIFICATIONS:			
Complete Addendum B sheet(s) with the following information	on:		
a. Operator Number certifications:			
(1) Name			
(2) Equipment certified to operate			
(3) Validation date in effect			
Review training course (or individual training requirements a training criteria and on the job training (OJT) requirements. Note: An OJT period must be defined in the formal cour	11	ŕ	or formal
4. TEST LOG/RECORD BOOK:	Yes	No	N/A
a. Is a log/record book kept per:			
(1) NAVSEA SG420-AP-MMA-010?			
(2) NAVAIR 17-1-127?			
b. Is it current with the latest test date?			

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION VI - SITE INSPECTION CHECKLIST (continued)

c	Does it contain the following information?	Yes	No	N/A
	(1) Item Serial Number, NSN, Nomenclature, Test Load, Operator's Name, and Date			
	(2) Test and inspection number or MRC number			
5. TECH	INICAL DOCUMENTATION:			
	Ooes the test activity have a current copy of the following ocuments?			
a	NAVSEA SG420-AP-MMA-010			
b	. NAVAIR 17-1-127			
c	Applicable drawings for test fixtures			
d	. Special documents:			
	(1) Written Operating Procedures for equipment and processes			
	(2) Certified Non-Destructive Testing (NDT) procedures (as required)			
	(3) Site Work Packages (MRC cards, inspection test criteria, shop travelers, etc.)			
	(4) Weapon peculiar or locally developed equipment certifications and support documentation			
6. TEST	FIXTURES:			

a. Does the test activity have test fixtures for the following "Multi-Purpose" OHE?:

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

Note: Weapons peculiar test fixtures are not required for all facilities. These special to fixtures are only required to support the actual testing arrangement. a. TOMAHAWK Missile Fixtures: (1) Adapter, Lifting CLS Test Plate (NWSE Drawing 10502) (2) Gas Generator Lifting Device (JCM -17769 Drawing) b. STANDARD Missile Fixtures: (1) Mk 4 Mod 2 Hoisting Beam (simulates forward shoe) (NAVSEA Drawing 5167158) (2) Mk 5 Mod 2 Hoisting Beam (simulates aft shoe) (NAVSEA Drawing 5167159) (3) STREAM Adapter, Mk 6 and Mk 30 Mods Dolly (NAVSEA Drawing 5166612) (4) Rail, Mk 6 and Mk 30 Mods Dolly		Yes	No	N/A	
(3) Multi-Purpose Fixture (NAVSEA Drawing 6213365) (4) Mk 5 Mod 1 Heavy Lift STREAM Cargo (GULLWING) Strongback 7. WEAPONS PECULIAR TEST FIXTURES: Note: Weapons peculiar test fixtures are not required for all facilities. These special to fixtures are only required to support the actual testing arrangement. a. TOMAHAWK Missile Fixtures: (1) Adapter, Lifting CLS Test Plate (NWSE Drawing 10502) (2) Gas Generator Lifting Device (JCM -17769 Drawing) b. STANDARD Missile Fixtures: (1) Mk 4 Mod 2 Hoisting Beam (simulates forward shoe) (NAVSEA Drawing 5167158) (2) Mk 5 Mod 2 Hoisting Beam (simulates aft shoe) (NAVSEA Drawing 5167159) (3) STREAM Adapter, Mk 6 and Mk 30 Mods Dolly (NAVSEA Drawing 5166612) (4) Rail, Mk 6 and Mk 30 Mods Dolly	(1) Mandrels (1.5 inch radius for pallet slings)				
6213365) (4) Mk 5 Mod 1 Heavy Lift STREAM Cargo (GULLWING) Strongback 7. WEAPONS PECULIAR TEST FIXTURES: Note: Weapons peculiar test fixtures are not required for all facilities. These special to fixtures are only required to support the actual testing arrangement. a. TOMAHAWK Missile Fixtures: (1) Adapter, Lifting CLS Test Plate (NWSE Drawing 10502) (2) Gas Generator Lifting Device (JCM -17769 Drawing) b. STANDARD Missile Fixtures: (1) Mk 4 Mod 2 Hoisting Beam (simulates forward shoe) (NAVSEA Drawing 5167158) (2) Mk 5 Mod 2 Hoisting Beam (simulates aft shoe) (NAVSEA Drawing 5167159) (3) STREAM Adapter, Mk 6 and Mk 30 Mods Dolly (NAVSEA Drawing 5166612) (4) Rail, Mk 6 and Mk 30 Mods Dolly	(2) Hook (to interface for hoisting slings)				
(GULLWING) Strongback 7. WEAPONS PECULIAR TEST FIXTURES: Note: Weapons peculiar test fixtures are not required for all facilities. These special to fixtures are only required to support the actual testing arrangement. a. TOMAHAWK Missile Fixtures: (1) Adapter, Lifting CLS Test Plate (NWSE Drawing 10502) (2) Gas Generator Lifting Device (JCM -17769 Drawing) b. STANDARD Missile Fixtures: (1) Mk 4 Mod 2 Hoisting Beam (simulates forward shoe) (NAVSEA Drawing 5167158) (2) Mk 5 Mod 2 Hoisting Beam (simulates aft shoe) (NAVSEA Drawing 5167159) (3) STREAM Adapter, Mk 6 and Mk 30 Mods Dolly (NAVSEA Drawing 5166612) (4) Rail, Mk 6 and Mk 30 Mods Dolly					
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Mods Dolly (NAVSEA Drawing 5166612) (4) Rail, Mk 6 and Mk 30 Mods Dolly	` '				
	• • •				
(INWHE Drawing 7881)	(4) Rail, Mk 6 and Mk 30 Mods Dolly (NWHC Drawing 7881)				

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

	Yes	No	N/A
(5) Spider Carrier, Mk 60 and Mk 61 Mod 0 (NAVSEA Drawing 6213000) (For STANDARD Missile workshops only)			
c. HARPOON Missile Fixtures:			
(1) Mk 32 through Mk 38 Mod 0, Mk 37 Mod 1 Lift Beam (NAVSEA Drawing 5166534)			
(2) Multiple Beam (NAVSEA Drawing 5166708-11)			
d. Vertical Launch ASROC (VLA) Missile Fixtures:			
(1) Mk 27 Mod 0 Lower Airframe Handling Fixture (NAVSEA Drawings 6212950 and 6212951)			
(2) Mk 28 Mod 0 Upper Airframe Handling Fixture (NAVSEA Drawing 6212956)			
(3) Mk 29 Mod 0 Thrust Vector Control (TVC) Handling Fixture (NAVSEA Drawing 6212961)			
(4) Mk 51 Mod 0 Beam (NAVSEA Drawing 6212963))		
e. Vertical Launching System (VLS) Missile Fixture			
(1) Mk 166 Mod 0 Sill Lift Adapter (NAVSEA Drawing 6213007)			
(2) Mk 50 Mod 0 Adapter Lift Canister Beam (NAVSEA Drawing 6213813)			
(3) Mk 23 Mod 0 Tilt Fixture (NAVSEA Drawing 6212577)			

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

SECTION VI - SITE INSPECTION CHECKLIST (continued)

			Yes	No	N/A
	(4)	Mk 25 Mod 0 Tilt Fixture (NAVSEA Drawing 6213559)			
		a. Steady Rest (NAVSEA Drawing 6213459)			
		b. Pivot Fixture (NAVSEA Drawing 6213476)			
		c. Beam Weldment (NAVSEA Drawing 6213505)			
		d. Hydraulic Control Cart (NAVSEA Drawing 6213545)			
		e. Pivot Fixture Brake (NAVSEA Drawing 6213534)			
	(5)	Mk 3 Mod 0 Horizontal Transfer Assembly Strongback			
		(a) Upper - (NAVSEA Drawing 6213038)			
		(b) Lower - (NAVSEA Drawing 6213039)			
	(6)	Mk 4 Mod 0 Vertical Assembly Strongback (NAVSEA Drawing 6213003)			
f.	Unc	lersea Weapons: (8" to 28" diameter mandrels)			
g.	NA	VAIR unique fixtures (See NAVAIR 17-1-127)			

8. LOCALLY MANUFACTURED TEST FIXTURES:

Note: Activities may design and develop their own test fixtures to replace the recommended test fixtures detailed in NAVSEA SG420-AP-MMA-010 or NAVAIR 17-1-127, provided that they are able to withstand the prescribed test loads. However, if the suggested test fixture is used, any deviations to the fixture must be submitted to the Naval PHST Center (for NAVSEA fixtures) or NAVAIR (for NAVAIR fixtures) for approval.

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

	a. Are they certified by the P or local Safety/QA represe	· · · · · · · · · · · · · · · · · · ·	Ye	es 	No	N/A
	b. Are drawings available an	1?				
	c. Are prior to use inspection	n criteria defined?				
9. FAC	CILITY VALIDATIONS:					
OHE	orm six different inspections E. Additional tests will be recally manufactured OHE.					
TEST NO.	DESCRIPTION NOMENCLATURE	INSPECTION PROCEDURES	SET-UP CONFIG.	V	VALIDA TESTII	
1.				_		
2.				_		
3.				_		
4.				_		
5.				_		
6.				_		
10. MA	ARKING OF EQUIPMENT:					
	est Tags Used: Plasticsling tag (wire rope slings o				264434	16).
	Test Tag Information: Test Facility/Test Expiration	Date/SWL:	Yes		No	

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

c. Method of marking tag/commodity: Stenciled Etched Engraved Stamped	O	ther _	
11. QUALITY ASSURANCE VERIFICATION OF SYSTEM:	Yes	No	N/A
a. QAR designated, in writing, by CO/OIC (Military only)			
b. Validation of inspection procedures			
c. Validation of test load			
d. Signature approval for OHE release			
12. INSPECTION OUTBRIEF (PHST Center Site Certification Of	nly)		
a. With Testing Department Personnel?			
b. With Activity's CO/OIC (as required)?			
ADDITIONAL REMARKS:			
SUMMARY/CONCLUSIONS:			
INSPECTED BY: DATE:			_
SITE APPROVAL/DISAPPROVAL: Based on the above Site Insp Documentation,	pection Cl	necklis	st and
(ship/shore name)			
IS RECOMMENDED			
IS NOT RECOMMENDED			
as a Certified Weight Test Facility.			

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

ADDENDUM A - WEAPONS PECULIAR OR LOCALLY MANUFACTURED HANDLING EQUIPMENT LOAD TEST REQUIREMENTS

ΓEST NO.	DESCRIPTION NOMENCLATURE	INSPECTION PROCEDURES	SET-UP CONFIG.	VALIDATE TESTING
1.				
2.				
3.				
4.				
5.				
6.				
7.				
8.				
9.				
10.				
11.			- <u></u>	
12.				
	(INSPECTOR'S NAM	E)	(DAT	E)

NAVY PERIODIC WEIGHT TEST CERTIFICATION PROGRAM FOR ORDNANCE HANDLING EQUIPMENT TEST FACILITIES

ADDENDUM B - PERSONNEL QUALIFICATIONS

Complete the following information:		
a.	Operator Number	_ certifications:
	(1) Name:	
	(2) Equipment Nomenclature:	
	(3) Validation Date In Effect:	
b.	Operator Number	_ certifications:
	(1) Name:	
	(2) Equipment Nomenclature:	
	(3) Validation Date In Effect:	
c.	Operator Number	_ certifications:
	(1) Name:	
	(2) Equipment Nomenclature:	
	(3) Validation Date In Effect:	
d.	Operator Number	_ certifications:
	(1) Name:	
	(2) Equipment Nomenclature:	
	(3) Validation Date In Effect:	
e.	Operator Number	certifications:
	(1) Name:	
	(2) Equipment Nomenclature:	
	(3) Validation Date In Effect:	